

SAFETY DATA SHEET

SDS-EUEN-2018

Date Updated : 18th. April. 2017

Version : 2.0/EN.

Regulation : In accordance with Regulation (EC) 1907/2006 (REACH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY /UNDERTAKING

1.1. Product identifier

Product form : Substance
Substance name : Di(2-ethylhexyl)succinate
EC no : 220-836-1
CAS No : 2915-57-3
Brand : BIOMELFLEX
Synonyms : Bis(2-ethylhexyl)succinate, Butanedioic acid, bis(2-ethylhexyl) ester

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Plasticizer for surface coatings, rubber, film and PVC

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Name : Meltem Kimya Tekstil San. İth. İhr. ve Tic. A.Ş.
Address : Batı Otopan Bağlantı Yolu Üzeri Büyük Dikili Mah.
93099 Sok. No:4/A S eyhan/ADANA/TURKEY
Phone N° : +90 322 485 62 67
FAX N° : +90 322 485 62 03
E-mail of competent person responsible for SDS : goknur.gokce@meltemkimya.com.tr

1.4. Emergency telephone number

European Emergency N°: 112
Emergency telephone at the company: +90/322/4856267-68
Available outside office hours: 24h/day/365days

SECTION 2 : HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]**
Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

- 2.2. Label elements**
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable

- 2.3. Other hazards**
No additional information available

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substance**

Formula	C ₂₀ H ₃₈ O ₄
EC-No.	203-090-1
Molar mass	370,57 g/mol

For the full text of the H-Statements mentioned in this Section, see Section 16.

Remarks No disclosure requirement according to Regulation (EC) No. 1907/2006.

- 3.2. Mixture**
Not applicable

SECTION 4 : FIRST-AID MEASURES**General advice**

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Inhalation

Keep at rest. Breathe with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

Notes to physician
Treat symptomatically.

SECTION 5 : FIRE-FIGHTING MEASURES

OSHA Flammability classification
Combustible liquid Class III B

Suitable extinguishing media
foam. dry chemical. carbon dioxide (CO₂). water spray.

Extinguishing media which must not be used for safety reasons
Do not use a solid water stream as it may scatter and spread fire.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons Vapours are heavier than air and may spread along floors

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition. For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

Incompatible products

strong acids
strong oxidizing agents

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

No additional information available.

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Safety glasses. Gloves. Protective clothing.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls : If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour	colourless to light yellow
Molecular weight	342,51
Molecular formula	C ₂₀ H ₃₈ O ₄
Flash point	> 320 °F (> 160 °C)
Autoignition temperature	> 689 °F (> 365 °C)
Boiling point/range	403 - 406 °F (206 - 206 °C) @ 0,005 atm
Decomposition temperature	> 932 °F (> 500 °C)
Density	0,933 g/cm ³ @ 20 °C
Refractive Index	1,445 @ 68 °F (20 °C)
Viscosity	12,4 mPa*s @ 68 °F (20 °C)
log Pow	7,13 (calculated) KOW WIN

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended storage conditions. Stable up to approximately 500 °C.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

strong acids, strong oxidizing agents

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11 : TOXICOLOGICAL INFORMATION
Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion

Acute toxicity				
Bis(2-ethylhexyl) succinate (2915-57-3)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 2000 mg/kg	rat female	OECD 423
Dermal	LD50	> 2000 mg/kg	rat, male/female	OECD 402

Irritation and corrosion				
Bis(2-ethylhexyl) succinate (2915-57-3)				
Target Organ Effects	Species	Result	Method	
Skin	human skin model	No skin irritation	OECD 439	
Eyes	rabbit	No eye irritation	OECD 405	

Sensitization				
Bis(2-ethylhexyl) succinate (2915-57-3)				
Target Organ Effects	Species	Evaluation	Method	
Skin	mouse	not sensitizing	OECD 429	

Subacute, subchronic and prolonged toxicity				
Bis(2-ethylhexyl) succinate (2915-57-3)				
Type	Dose	Species	Method	
Subchronic toxicity	NOAEL: 1600 ppm	mouse, male/female	OECD 408	read across
Subchronic toxicity	NOAEL: 6300 ppm	rat, male/female	OECD 408	read across

Carcinogenicity, Mutagenicity, Reproductive toxicity					
Bis(2-ethylhexyl) succinate (2915-57-3)					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	
Mutagenicity		mouse lymphoma cells	negative	OECD 476 (Mammalian Gene Mutation)	read across
Mutagenicity		mouse	negative	OECD 474	read across
Carcinogenicity	LOAEL 1715 mg/kg/d	mouse		OECD 451, Oral	read across
Carcinogenicity	NOAEL 600 mg/kg/d	rat		OECD 451, Oral	read across
Reproductive toxicity	NOAEL 170 mg/kg/d	rat, parental		OECD 415	read across
Reproductive toxicity	NOAEL 170 mg/kg/d	rat, 1. Generation, male/female		OECD 415	read across
Developmental Toxicity	NOAEL 170 mg/kg/d	rat		OECD 414, Oral	Maternal toxicity read across
Developmental Toxicity	NOEL 28 mg/kg/d	rat		OECD 414, Oral	Fetal toxicity read across

Note

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 : ECOLOGICAL INFORMATION

Acute aquatic toxicity			
Bis(2-ethylhexyl) succinate (2915-57-3)			
Species	Exposure time	Dose	Method
Oncorhynchus mykiss (rainbow trout)	96h	LC50: > 100 mg/l	OECD 203
Pseudokirchneriella subcapitata	72h	EC50: > 320 mg/l (Growth rate)	OECD 201

Long term toxicity				
Bis(2-ethylhexyl) succinate (2915-57-3)				
Type	Species	Dose	Method	
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: >=0,77 mg/l (21d)	OECD 211	read across

Bis(2-ethylhexyl) succinate, CAS: 2915-57-3
Biodegradation

> 60 % (10 d), activated sludge (domestic), aerobic, OECD 301 B.

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

Note

Avoid release to the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS
Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14 : TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15 : REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Major Accident Hazard : 96/82/EC

Legislation : Directive 96/82/EC does not apply

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer
not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC
not regulated

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals
not regulated

Substances of very high concern (SVHC) : This product does not contain substances of very high concern above the respective regulatory limit (> 0.1 % (w/w) Regulation (EC) No 1907/2006 (REACH), Article 57).

National legislation

Storage class : 10 - 13

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 : OTHER INFORMATION

Training advice

Provide adequate information, instruction and training for operators.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.